

系級：_____ 學號：_____ 姓名：_____

1. 試解：

(1) $y'' + 9y = 3 + 2e^x + \sin x$

(2) $y''' - 4y'' - 7y' + 10y = 3x - e^x$

(3) $y'' + 2y' + y = 3e^{-x}$

2. 試解： $y'' - 3y' + 2y = 3e^{2x} + 2x^2 - 7$ & $y(0) = 1, y'(0) = 0$

3. 試以參數變異法求解

(1) $y'' + 16y = \cos 4x$

(2) $y'' + 2y' + y = e^{-x} \cdot \ln x$